

ADVANCED MICRO-OPTICS SOLAR ENERGY COLLECTION SYSTEM

ABSTRACT of the Invention

Due to an ever growing shortage of conventional energy sources, there is an increasingly intense interest in harnessing solar energy. Broadly this invention deals with the general concept of method, apparatus, and consequences of focussing light. Specifically the Coherent-Micro-Macro-Collector of this invention is the unique total solar collector system consisting of concentrator and receiver. Method and apparatus are detailed for systems with: 1. Passive or non-tracking. 2. Semi-Passive tracking 2. Single-axis tracking. 3. Two-axis tracking. Also detailed are means for operating the collector system of micro-optics and receiver on the ground and protection means. A particularly important object of the CMMC is the focussing of sunlight for solar power conversion and production.